10/534081
JC06 Rec'd PCT/PTO 05 MAY 2005

SEQUENCE LISTING

<110> FUKATSU, Kohji
SASAKI, Shinobu
HINUMA, Shuji
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SUZUKI, Nobuhiro
HARADA, Masataka
YASUMA, Tsuneo

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<151> 2003-11-06

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<151> 2002-11-08

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<151> 2003-01-27

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<151> 2003-05-30

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Gly Cys Ser Asp Leu Leu Leu Ala Ile Thr Leu Pro Leu Lys Ala Val
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Glu Ala Leu Ala Ser Gly Ala Trp Pro Leu Pro Leu Pro Phe Cys Pro
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Val Phe Ala Leu Ala His Phe Ala Pro Leu Tyr Ala Gly Gly Gly Phe
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Ala Ile Trp Ala Leu Val Leu Cys His Leu Gly Leu Ala Leu Gly Leu
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Leu Val Arg Ser Gly Leu Ser His Lys Arg Lys Leu Arg Ala Ala Trp
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Val Ala Gly Gly Ala Leu Leu Thr Leu Leu Leu Cys Leu Gly Pro Tyr
225                 230                 235                 240
Asn Ala Ser Asn Val Ala Ser Phe Ile Asn Pro Asp Leu Gly Gly Ser
                245                 250                 255
Trp Arg Lys Leu Gly Leu Ile Thr Gly Ala Trp Ser Val Val Leu Asn
            260                 265                 270
Pro Leu Val Thr Gly Tyr Leu Gly Thr Gly Pro Gly Arg Gly Thr Ile
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            20                  25                  30
His Ala Lys Leu Arg Leu Thr Pro Ser Leu Val Tyr Thr Leu His Leu
        35                  40                  45
Ala Cys Ser Asp Leu Leu Leu Ala Ile Thr Leu Pro Leu Lys Ala Val
    50                  55                  60
Glu Ala Leu Ala Ser Gly Val Trp Pro Leu Pro Leu Pro Phe Cys Pro
65                  70                  75                  80
Val Phe Ala Leu Ala His Phe Ala Pro Leu Tyr Ala Gly Gly Gly Phe
                85                  90                  95
Leu Ala Ala Leu Ser Ala Gly Arg Tyr Leu Gly Ala Ala Phe Pro Phe
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    130                 135                 140
Glu Ala Pro Arg Gly Trp Val Asp Asn Thr Thr Ser Ser Leu Gly Ile
145                 150                 155                 160
Asn Ile Pro Val Asn Gly Ser Pro Val Cys Leu Glu Ala Trp Asp Pro
                165                 170                 175
Asp Ser Ala Arg Pro Ala Arg Leu Ser Phe Ser Ile Leu Leu Phe Phe
            180                 185                 190
Leu Pro Leu Val Ile Thr Ala Phe Cys Tyr Val Gly Cys Leu Arg Ala
        195                 200                 205
Leu Val His Ser Gly Leu Ser His Lys Arg Lys Leu Arg Ala Ala Trp
    210                 215                 220
Val Ala Gly Gly Ala Leu Leu Thr Leu Leu Leu Cys Leu Gly Pro Tyr
225                 230                 235                 240
Asn Ala Ser Asn Val Ala Ser Phe Ile Asn Pro Asp Leu Glu Gly Ser
                245                 250                 255
Trp Arg Lys Leu Gly Leu Ile Thr Gly Ala Trp Ser Val Val Leu Asn
            260                 265                 270
Pro Leu Val Thr Gly Tyr Leu Gly Thr Gly Pro Gly Gln Gly Thr Ile
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Cys Val Thr Arg Thr Pro Arg Gly Thr Ile Gln Lys
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His Ala Arg Leu Arg Leu Thr Pro Ser Leu Val Tyr Ala Leu Asn Leu
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Gly Cys Ser Asp Leu Leu Leu Thr Val Ser Leu Pro Leu Lys Ala Val
    50                  55                  60
Glu Ala Leu Ala Ser Gly Ala Trp Pro Leu Pro Ala Ser Leu Cys Pro
65                  70                  75                  80
Val Phe Ala Val Ala His Phe Phe Pro Leu Tyr Ala Gly Gly Gly Phe
                85                  90                  95
Leu Ala Ala Leu Ser Ala Gly Arg Tyr Leu Gly Ala Ala Phe Pro Leu
            100                 105                 110
Gly Tyr Gln Ala Phe Arg Arg Pro Cys Tyr Ser Trp Gly Val Cys Ala
        115                 120                 125
Ala Ile Trp Ala Leu Val Leu Cys His Leu Gly Leu Val Phe Gly Leu
    130                 135                 140
Glu Ala Pro Gly Gly Trp Leu Asp His Ser Asn Thr Ser Leu Gly Ile
145                 150                 155                 160
Asn Thr Pro Val Asn Gly Ser Pro Val Cys Leu Glu Ala Trp Asp Pro
                165                 170                 175
Ala Ser Ala Gly Pro Ala Arg Phe Ser Leu Ser Leu Leu Leu Phe Phe
            180                 185                 190
Leu Pro Leu Ala Ile Thr Ala Phe Cys Tyr Val Gly Cys Leu Arg Ala
        195                 200                 205
Leu Ala Arg Ser Gly Leu Thr His Arg Arg Lys Leu Arg Ala Ala Trp
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Val Ala Gly Gly Ala Leu Leu Thr Leu Leu Leu Cys Val Gly Pro Tyr
225                 230                 235                 240
Asn Ala Ser Asn Val Ala Ser Phe Leu Tyr Pro Asn Leu Gly Gly Ser
                245                 250                 255
Trp Arg Lys Leu Gly Leu Ile Thr Gly Ala Trp Ser Val Val Leu Asn
            260                 265                 270
Pro Leu Val Thr Gly Tyr Leu Gly Arg Gly Pro Gly Leu Lys Thr Val
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Cys Ala Ala Arg Thr Gln Gly Gly Lys Ser Gln Lys
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35 40 45
Gly Cys Ser Asp Leu Leu Leu Thr Val Ser Leu Pro Leu Lys Ala Val
50 55 60
Glu Ala Leu Ala Ser Gly Ala Trp Pro Leu Pro Ala Ser Leu Cys Pro
65 70 75 80
Val Phe Gly Val Ala His Phe Ala Pro Leu Tyr Ala Gly Gly Gly Phe
85 90 95
Leu Ala Ala Leu Ser Ala Gly Arg Tyr Leu Gly Ala Ala Phe Pro Leu
100 105 110
Gly Tyr Gln Ala Phe Arg Arg Pro Cys Tyr Ser Trp Gly Val Cys Ala
115 120 125
Ala Ile Trp Ala Leu Val Leu Cys His Leu Gly Leu Val Phe Val Leu
130 135 140
Glu Ala Pro Gly Gly Trp Leu Asp His Ser Asn Thr Ser Leu Gly Ile
145 150 155 160
Asn Thr Pro Val Asn Gly Ser Pro Val Cys Leu Glu Ala Trp Asp Pro
165 170 175
Ala Ser Ala Gly Pro Ala Arg Phe Ser Leu Ser Leu Leu Leu Phe Phe
180 185 190
Leu Pro Leu Ala Ile Thr Ala Phe Cys Tyr Val Gly Cys Leu Arg Ala
195 200 205
Leu Ala His Ser Gly Leu Thr His Arg Arg Lys Leu Arg Ala Ala Trp
210 215 220
Val Ala Gly Gly Ala Leu Leu Thr Leu Leu Leu Cys Val Gly Pro Tyr
225 230 235 240
Asn Ala Ser Asn Val Ala Ser Phe Leu Asn Pro Asn Leu Gly Gly Ser
245 250 255
Trp Arg Lys Leu Gly Leu Ile Thr Gly Ala Trp Ser Val Val Leu Asn
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Cys Ala Ala Arg Thr Gln Gly Ser Thr Ser Gln Lys
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Arg Ala Arg Leu Arg Leu Thr Pro Asn Leu Val Tyr Thr Leu His Leu
        35                  40                  45
Ala Cys Ser Asp Leu Leu Leu Ala Ile Thr Leu Pro Val Lys Ala Val
    50                  55                  60
Glu Ala Leu Ala Ser Gly Ala Trp Pro Leu Pro Leu Pro Leu Cys Pro
65                  70                  75                  80
Val Phe Val Leu Val His Phe Ala Pro Leu Tyr Ala Gly Gly Gly Phe
                85                  90                  95
Leu Ala Ala Leu Ser Ala Gly Arg Tyr Leu Gly Ala Ala Phe Pro Phe
            100                 105                 110
Gly Tyr Gln Ala Val Arg Arg Pro Arg Tyr Ser Trp Gly Val Cys Val
        115                 120                 125
Ala Ile Trp Ala Leu Val Leu Cys His Met Gly Leu Val Leu Gly Leu
    130                 135                 140
Glu Ala Pro Gly Gly Trp Leu Asn Thr Thr Ser Ser Ser Leu Gly Ile
145                 150                 155                 160
Asn Thr Pro Val Asn Gly Ser Pro Val Cys Leu Glu Ala Trp Asp Pro
                165                 170                 175
Asn Ser Ala Arg Pro Ala Arg Leu Ser Phe Ser Ile Leu Leu Phe Phe
            180                 185                 190
Val Pro Leu Val Ile Thr Ala Phe Cys Tyr Val Gly Cys Leu Arg Ala
        195                 200                 205
Leu Ala His Ser Gly Leu Ser His Lys Arg Lys Leu Arg Ala Ala Trp
    210                 215                 220
Ala Ala Gly Gly Ala Phe Leu Thr Leu Leu Leu Cys Leu Gly Pro Tyr
225                 230                 235                 240
Asn Ala Ser Asn Val Ala Ser Phe Val Asn Pro Asp Leu Gly Gly Ser
                245                 250                 255
Trp Arg Lys Leu Gly Leu Ile Thr Gly Ser Trp Ser Val Val Leu Asn
            260                 265                 270
Pro Leu Val Thr Gly Tyr Leu Gly Ala Ser Pro Gly Arg Gly Thr Val
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<223> n stands for deoxy ribothymidine

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<223> n stands for deoxy ribothymidine

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<400> 25
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<220>
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<400> 26
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10/534081
JC06 Rec'd PCT/PTO 05 MAY 2005

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            20                  25                  30
His Ala Lys Leu Arg Leu Thr Pro Ser Leu Val Tyr Thr Leu His Leu
        35                  40                  45
Gly Cys Ser Asp Leu Leu Leu Ala Ile Thr Leu Pro Leu Lys Ala Val
    50                  55                  60
Glu Ala Leu Ala Ser Gly Ala Trp Pro Leu Pro Leu Pro Phe Cys Pro
65                  70                  75                  80
Val Phe Ala Leu Ala His Phe Ala Pro Leu Tyr Ala Gly Gly Gly Phe
                85                  90                  95
Leu Ala Ala Leu Ser Ala Gly Arg Tyr Leu Gly Ala Ala Phe Pro Phe
            100                 105                 110
Gly Tyr Gln Ala Ile Arg Arg Pro Arg Tyr Ser Trp Gly Val Cys Val
        115                 120                 125
Ala Ile Trp Ala Leu Val Leu Cys His Leu Gly Leu Ala Leu Gly Leu
    130                 135                 140
Glu Thr Ser Gly Ser Trp Leu Asp Asn Ser Thr Ser Ser Leu Gly Ile
145                 150                 155                 160
Asn Ile Pro Val Asn Gly Ser Pro Val Cys Leu Glu Ala Trp Asp Pro
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Asp Ser Ala Arg Pro Ala Arg Leu Ser Phe Ser Ile Leu Leu Phe Phe
            180                 185                 190
Leu Pro Leu Val Ile Thr Ala Phe Cys Tyr Val Gly Cys Leu Arg Ala
        195                 200                 205
Leu Val Arg Ser Gly Leu Ser His Lys Arg Lys Leu Arg Ala Ala Trp
    210                 215                 220
Val Ala Gly Gly Ala Leu Leu Thr Leu Leu Leu Cys Leu Gly Pro Tyr
225                 230                 235                 240
Asn Ala Ser Asn Val Ala Ser Phe Ile Asn Pro Asp Leu Gly Gly Ser
                245                 250                 255
Trp Arg Lys Leu Gly Leu Ile Thr Gly Ala Trp Ser Val Val Leu Asn
            260                 265                 270
Pro Leu Val Thr Gly Tyr Leu Gly Thr Gly Pro Gly Arg Gly Thr Ile
        275                 280                 285
Cys Val Thr Arg Thr Gln Arg Gly Thr Ile Gln Lys
    290                 295                 300
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agcttggtct acactctcca tctgggctgc tctgatctcc tactggccat cactctgccc  180
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gtctttgcct tggcccactt tgctcccctc tacgcaggcg gaggcttcct agctgctctc  300
agcgctggcc gctacctggg ggctgccttc cccttcgggt accaagccat ccggaggccc  360
cgctattcct ggggtgtgtg tgtggctata tgggcccttg tcctctgcca cctggggctg  420
gcccttggct tggagacttc cggaagctgg ctggacaaca gtaccagttc cctgggcatc  480
aacatacccg tgaatggctc cccggtctgc ctggaagcct gggatcccga ctctgccccc  540
cctgcccgtc tcagtttctc cattctgctc ttctttctgc ccttggtcat cactgccttc  600
tgctatgtgg gctgcctccg ggccctggtg cgctcaggcc tgagccacaa acggaagctc  660
agggcagctt gggtggccgg aggcgctctc ctcacactcc tgctctgcct ggggccctat  720
aatgcctcca atgtggctag tttcataaac ccggacctag gaggctcctg gaggaagttg  780
ggactcatca caggggcctg gagtgtggta ctcaacccac tggtcactgg ctacttggga  840
acaggtcctg gacggggaac aatatgtgtg acgaggactc aaagaggaac aattcagaag  900
```

<210> 3
<211> 300
<212> PRT
<213> Rat
<400> 3

```
Met Asp Leu Pro Pro Gln Leu Ser Phe Ala Leu Tyr Val Ser Ala Phe
                5                  10                  15
Ala Leu Gly Phe Pro Leu Asn Leu Leu Ala Ile Arg Gly Ala Val Ser
            20                  25                  30
His Ala Lys Leu Arg Leu Thr Pro Ser Leu Val Tyr Thr Leu His Leu
        35                  40                  45
Ala Cys Ser Asp Leu Leu Leu Ala Ile Thr Leu Pro Leu Lys Ala Val
    50                  55                  60
Glu Ala Leu Ala Ser Gly Val Trp Pro Leu Pro Leu Pro Phe Cys Pro
65                  70                  75                  80
Val Phe Ala Leu Ala His Phe Ala Pro Leu Tyr Ala Gly Gly Gly Phe
                85                  90                  95
Leu Ala Ala Leu Ser Ala Gly Arg Tyr Leu Gly Ala Ala Phe Pro Phe
            100                 105                 110
Gly Tyr Gln Ala Ile Arg Arg Pro Cys Tyr Ser Trp Gly Val Cys Val
        115                 120                 125
Ala Ile Trp Ala Leu Val Leu Cys His Leu Gly Leu Ala Leu Gly Leu
    130                 135                 140
Glu Ala Pro Arg Gly Trp Val Asp Asn Thr Thr Ser Ser Leu Gly Ile
145                 150                 155                 160
Asn Ile Pro Val Asn Gly Ser Pro Val Cys Leu Glu Ala Trp Asp Pro
                165                 170                 175
Asp Ser Ala Arg Pro Ala Arg Leu Ser Phe Ser Ile Leu Leu Phe Phe
            180                 185                 190
Leu Pro Leu Val Ile Thr Ala Phe Cys Tyr Val Gly Cys Leu Arg Ala
        195                 200                 205
Leu Val His Ser Gly Leu Ser His Lys Arg Lys Leu Arg Ala Ala Trp
    210                 215                 220
Val Ala Gly Gly Ala Leu Leu Thr Leu Leu Leu Cys Leu Gly Pro Tyr
225                 230                 235                 240
Asn Ala Ser Asn Val Ala Ser Phe Ile Asn Pro Asp Leu Glu Gly Ser
                245                 250                 255
Trp Arg Lys Leu Gly Leu Ile Thr Gly Ala Trp Ser Val Val Leu Asn
            260                 265                 270
Pro Leu Val Thr Gly Tyr Leu Gly Thr Gly Pro Gly Gln Gly Thr Ile
        275                 280                 285
Cys Val Thr Arg Thr Pro Arg Gly Thr Ile Gln Lys
    290                 295                 300
```

<210> 4
<211> 900
<212> DNA
<213> Rat
<400> 4

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atggacctgc ccccacagct ctccttcgct ctctatgtat cagcctttgc actaggcttt   60
ccattgaact tgttagccat ccgaggtgca gtgtcccacg cgaaactgcg actcaccccc  120
agcttggtct acactctcca tttggcctgc tctgacctcc tactggccat caccctgccc  180
ctgaaggctg tggaggccct ggcttctggg gtctggcccc tgccactccc cttctgccca  240
gtctttgcct tggcccactt tgcgcccctc tatgcaggtg gaggcttcct ggctgctctc  300
agtgctggcc gctacctggg agctgccttc ccctttggat accaagccat ccggaggccc  360
tgctattcct ggggtgtgtg tgtggctata tgggcccttg tcctttgcca cctgggactg  420
gctcttggct tggaggctcc cagaggctgg gtggataaca ccaccagttc cctgggcatc  480
aacatacccg tgaatggctc cccggtctgc ctggaagcgt gggatcctga ctctgcccgc  540
cctgcccgac tcagtttctc gattctgctc ttctttctgc ccttggttat cactgctttc  600
tgctatgtgg gctgcctccg ggccctggtg cactcgggcc tgagccacaa acggaagctc  660
agggcagctt gggtggctgg aggagcactt ctcacactcc tgctctgcct ggggccctat  720
aatgcttcca atgtggctag tttcataaac ccggacttag aaggctcctg gaggaagttg  780
gggctcatca caggagcctg gagtgtggtg ctcaacccac tggtcactgg ctacttggga  840
acaggtcctg gacaggggac aatatgtgtg accaggactc caagagggac aattcagaag  900
```

<210> 5
<211> 300
<212> PRT
<213> Human
<400> 5

```
Met Asp Leu Pro Pro Gln Leu Ser Phe Gly Leu Tyr Val Ala Ala Phe
                5                  10                  15
Ala Leu Gly Phe Pro Leu Asn Val Leu Ala Ile Arg Gly Ala Thr Ala
            20                  25                  30
His Ala Arg Leu Arg Leu Thr Pro Ser Leu Val Tyr Ala Leu Asn Leu
        35                  40                  45
Gly Cys Ser Asp Leu Leu Leu Thr Val Ser Leu Pro Leu Lys Ala Val
```

```
     50                  55                  60
Glu Ala Leu Ala Ser Gly Ala Trp Pro Leu Pro Ala Ser Leu Cys Pro
 65                  70                  75                  80
Val Phe Ala Val Ala His Phe Phe Pro Leu Tyr Ala Gly Gly Gly Phe
                85                  90                  95
Leu Ala Ala Leu Ser Ala Gly Arg Tyr Leu Gly Ala Ala Phe Pro Leu
            100                 105                 110
Gly Tyr Gln Ala Phe Arg Arg Pro Cys Tyr Ser Trp Gly Val Cys Ala
        115                 120                 125
Ala Ile Trp Ala Leu Val Leu Cys His Leu Gly Leu Val Phe Gly Leu
    130                 135                 140
Glu Ala Pro Gly Gly Trp Leu Asp His Ser Asn Thr Ser Leu Gly Ile
145                 150                 155                 160
Asn Thr Pro Val Asn Gly Ser Pro Val Cys Leu Glu Ala Trp Asp Pro
                165                 170                 175
Ala Ser Ala Gly Pro Ala Arg Phe Ser Leu Ser Leu Leu Leu Phe Phe
            180                 185                 190
Leu Pro Leu Ala Ile Thr Ala Phe Cys Tyr Val Gly Cys Leu Arg Ala
        195                 200                 205
Leu Ala Arg Ser Gly Leu Thr His Arg Arg Lys Leu Arg Ala Ala Trp
    210                 215                 220
Val Ala Gly Gly Ala Leu Leu Thr Leu Leu Leu Cys Val Gly Pro Tyr
225                 230                 235                 240
Asn Ala Ser Asn Val Ala Ser Phe Leu Tyr Pro Asn Leu Gly Gly Ser
                245                 250                 255
Trp Arg Lys Leu Gly Leu Ile Thr Gly Ala Trp Ser Val Val Leu Asn
            260                 265                 270
Pro Leu Val Thr Gly Tyr Leu Gly Arg Gly Pro Gly Leu Lys Thr Val
        275                 280                 285
Cys Ala Ala Arg Thr Gln Gly Gly Lys Ser Gln Lys
    290                 295                 300
```

<210> 6
<211> 900
<212> DNA
<213> Human
<400> 6

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atggacctgc ccccgcagct ctccttcggc ctctatgtgg ccgcctttgc gctgggcttc    60
ccgctcaacg tcctggccat ccgaggcgcg acggcccacg cccggctccg tctcaccccc   120
agcctggtct acgccctgaa cctgggctgc tccgacctgc tgctgacagt ctctctgccc   180
ctgaaggcgg tggaggcgct agcctccggg gcctggcctc tgccggcctc gctgtgcccc   240
gtcttcgcgg tggcccactt cttcccactc tatgccggcg ggggcttcct ggccgccctg   300
agtgcaggcc gctacctggg agcagccttc cccttgggct accaagcctt ccggaggccg   360
tgctattcct gggggtgtg cgcggccatc tgggccctcg tcctgtgtca cctgggtctg   420
gtctttgggt tggaggctcc aggaggctgg ctggaccaca gcaacacctc cctgggcatc   480
aacacaccgg tcaacggctc tccggtctgc ctggaggcct gggacccggc ctctgccggc   540
ccggcccgct tcagcctctc tctcctgctc ttttttctgc ccttggccat cacagccttc   600
tgctacgtgg gctgcctccg ggcactggcc cgctccggcc tgacgcacag gcggaagctg   660
cgggccgcct gggtggccgg cggggccctc ctcacgctgc tgctctgcgt aggaccctac   720
aacgcctcca acgtggccag cttcctgtac cccaatctag gaggctcctg gcggaagctg   780
gggctcatca cgggtgcctg gagtgtggtg cttaatccgc tggtgaccgg ttacttggga   840
aggggtcctg gcctgaagac agtgtgtgcg gcaagaacgc aaggggcaa gtcccagaag   900
```

<210> 7
<211> 300
<212> PRT
<213> Monkey
<400> 7

```
Met Asp Leu Pro Pro Gln Leu Ser Phe Ala Leu Tyr Val Ala Ala Phe
                5                   10                  15
Ala Leu Gly Phe Pro Leu Asn Val Leu Ala Ile Arg Gly Ala Arg Ala
            20                  25                  30
His Ala Arg Arg Arg Leu Thr Pro Ser Leu Val Tyr Ala Leu Asn Leu
        35                  40                  45
Gly Cys Ser Asp Leu Leu Leu Thr Val Ser Leu Pro Leu Lys Ala Val
    50                  55                  60
Glu Ala Leu Ala Ser Gly Ala Trp Pro Leu Pro Ala Ser Leu Cys Pro
65                  70                  75                  80
Val Phe Gly Val Ala His Phe Ala Pro Leu Tyr Ala Gly Gly Gly Phe
                85                  90                  95
Leu Ala Ala Leu Ser Ala Gly Arg Tyr Leu Gly Ala Ala Phe Pro Leu
            100                 105                 110
Gly Tyr Gln Ala Phe Arg Arg Pro Cys Tyr Ser Trp Gly Val Cys Ala
        115                 120                 125
Ala Ile Trp Ala Leu Val Leu Cys His Leu Gly Leu Val Phe Val Leu
    130                 135                 140
Glu Ala Pro Gly Gly Trp Leu Asp His Ser Asn Thr Ser Leu Gly Ile
```

```
145                 150                 155                 160
Asn Thr Pro Val Asn Gly Ser Pro Val Cys Leu Glu Ala Trp Asp Pro
                165                 170                 175
Ala Ser Ala Gly Pro Ala Arg Phe Ser Leu Ser Leu Leu Leu Phe Phe
            180                 185                 190
Leu Pro Leu Ala Ile Thr Ala Phe Cys Tyr Val Gly Cys Leu Arg Ala
        195                 200                 205
Leu Ala His Ser Gly Leu Thr His Arg Arg Lys Leu Arg Ala Ala Trp
    210                 215                 220
Val Ala Gly Gly Ala Leu Leu Thr Leu Leu Leu Cys Val Gly Pro Tyr
225                 230                 235                 240
Asn Ala Ser Asn Val Ala Ser Phe Leu Asn Pro Asn Leu Gly Gly Ser
                245                 250                 255
Trp Arg Lys Leu Gly Leu Ile Thr Gly Ala Trp Ser Val Val Leu Asn
            260                 265                 270
Pro Leu Val Thr Gly Tyr Leu Gly Arg Gly Pro Gly Leu Lys Thr Val
        275                 280                 285
Cys Ala Ala Arg Thr Gln Gly Ser Thr Ser Gln Lys
    290                 295                 300
```

<210> 8
<211> 900
<212> DNA
<213> Monkey
<400> 8

```
atggacctgc ccccgcagct ctcctttgcc ctctatgtgg cggcctttgc gctgggcttc    60
ccgctcaacg tcctggccat ccgaggggcg agggcccacg cccggcgccg tctcaccccc   120
agcctggtct acgccctgaa cctgggctgc tccgacctgt tgctgacagt ctccctgccc   180
ctgaaggcgg tggaggcgct ggcctccggg gcctggcctc tgccggcctc actgtgccct   240
gtcttcgggg tggcccactt tgctccactc tatgccggcg ggggcttcct ggccgccctg   300
agtgcaggcc gctacctggg agcggccttc cccttgggct accaagcctt ccggaggccg   360
tgctattcct gggggctgtg tgcggccatc tgggccctcg tcctgtgtca cctgggtctg   420
gtctttgtgt tggaggctcc gggaggctgg ctggaccaca gcaacacctc actgggcatc   480
aacacaccgg tcaacggctc tcccgtctgc ctggaggcct gggacccggc ctctgccggc   540
ccggcccgct tcagcctctc tctcctgctt tttttcctgc ccttggccat cacagccttc   600
tgctacgtgg gctgcctccg ggcactggcc cactccggcc tgacccacag gcggaagctg   660
agggccgcct gggtagccgg cggggccctc ctcacgctgc tgctctgcgt aggaccctac   720
aacgcctcca atgtggccag ctttctgaac cccaatctgg gaggctcctg gcggaagctg   780
gggctcatca cgggtgcctg gagtgtggtg ctcaacccgc tggtgaccgg ttacttggga   840
aggggtcctg gcctgaagac agtgtgtgcg gcaagaacgc aagggagcac gtcccagaag   900
```

<210> 9
<211> 300
<212> PRT
<213> Hamstar
<400> 9

```
Met Ala Leu Ser Pro Gln Leu Phe Phe Ala Leu Tyr Val Ser Ala Phe
                5                  10                  15
Ala Leu Gly Phe Pro Leu Asn Leu Leu Ala Ile Arg Gly Ala Val Ala
            20                  25                  30
Arg Ala Arg Leu Arg Leu Thr Pro Asn Leu Val Tyr Thr Leu His Leu
        35                  40                  45
Ala Cys Ser Asp Leu Leu Leu Ala Ile Thr Leu Pro Val Lys Ala Val
    50                  55                  60
Glu Ala Leu Ala Ser Gly Ala Trp Pro Leu Pro Leu Pro Leu Cys Pro
65                  70                  75                  80
Val Phe Val Leu Val His Phe Ala Pro Leu Tyr Ala Gly Gly Gly Phe
                85                  90                  95
Leu Ala Ala Leu Ser Ala Gly Arg Tyr Leu Gly Ala Ala Phe Pro Phe
            100                 105                 110
Gly Tyr Gln Ala Val Arg Arg Pro Arg Tyr Ser Trp Gly Val Cys Val
        115                 120                 125
Ala Ile Trp Ala Leu Val Leu Cys His Met Gly Leu Val Leu Gly Leu
    130                 135                 140
Glu Ala Pro Gly Gly Trp Leu Asn Thr Thr Ser Ser Ser Leu Gly Ile
145                 150                 155                 160
Asn Thr Pro Val Asn Gly Ser Pro Val Cys Leu Glu Ala Trp Asp Pro
                165                 170                 175
Asn Ser Ala Arg Pro Ala Arg Leu Ser Phe Ser Ile Leu Leu Phe Phe
            180                 185                 190
Val Pro Leu Val Ile Thr Ala Phe Cys Tyr Val Gly Cys Leu Arg Ala
        195                 200                 205
Leu Ala His Ser Gly Leu Ser His Lys Arg Lys Leu Arg Ala Ala Trp
    210                 215                 220
Ala Ala Gly Gly Ala Phe Leu Thr Leu Leu Leu Cys Leu Gly Pro Tyr
225                 230                 235                 240
Asn Ala Ser Asn Val Ala Ser Phe Val Asn Pro Asp Leu Gly Gly Ser
```

245 250 255
Trp Arg Lys Leu Gly Leu Ile Thr Gly Ser Trp Ser Val Val Leu Asn
260 265 270
Pro Leu Val Thr Gly Tyr Leu Gly Ala Ser Pro Gly Arg Gly Thr Val
275 280 285
Cys Thr Thr Arg Thr Gln Gly Gly Thr Ile Gln Lys
290 295 300

<210> 10
<211> 900
<212> DNA
<213> Hamstar
<400> 10
atggccctgt ctccccaact cttcttcgcc ctctatgtgt ctgccttcgc gctgggcttc 60
ccgctgaacc tgttggccat ccgaggcgcc gtggcccgtg caaggctgcg gctcaccccc 120
aacctggtct atacactcca cctggcctgc tctgacctgc tcctggccat cacgctaccc 180
gtgaaggccg tggaggccct ggcttctggg gcctggcccc tgccgctccc cttgtgccct 240
gtctttgtct tggtgcactt cgccccactc tatgcgggcg gaggcttcct ggcggctctc 300
agtgctggcc gctacctggg ggctgccttc cccttcgggt accaagccgt tcggcggccc 360
cgctactcct ggggcgtgtg tgtggctata tgggcccttg tcctctgcca catgggctg 420
gtcctcggct tggaggctcc cggaggctgg ctgaacacca ccagcagctc cctgggaatc 480
aacacaccgg tgaatggttc cccggtgtgc ctggaagcct gggatcccaa ctctgcccgg 540
cctgcccgcc tcagtttctc catcctgctc ttcttcgtgc ccctggtcat caccgccttc 600
tgctacgtgg gctgcctgcg ggctctggcc cactcgggcc tgagccacaa acggaagctc 660
agggcagcct gggcggccgg aggggccttt ctcacactcc tgctctgctt ggggccctac 720
aatgcctcca atgtggcgag tttcgtaaac ccggacctgg gaggctcctg gaggaagctg 780
gggctcatca cagggtcctg gagtgtggta ctcaacccgc tggtcaccgg ttacttggga 840
gcaagtcctg gccgagggac agtatgtacg acaaggactc aaggaggaac aattcagaag 900

<210> 11
<211> 33
<212> DNA
<213> Artificial Sequence
<220>
<400> 11
cgtcgacccg gcggccccat ggacctgccc ccg 33

<210> 12
<211> 33
<212> DNA
<213> Artificial Sequence
<220>
<400> 12
catcgattag cagtggcgtt acttctggga ctt 33

<210> 13
<211> 41
<212> DNA
<213> Artificial Sequence
<220>
<223> Designed oligonucleotide primer to amplify DNA encoding mGRP40
<400> 13
gtcgaccacc atggacctgc ccccacagct ctccttcgct c 41

<210> 14
<211> 38
<212> DNA
<213> Artificial Sequence
<220>
<223> Designed oligonucleotide primer to amplify DNA encoding mGRP40
<400> 14
actagtctac ttctgaattg ttcctctttg agtcctcg 38

<210> 15
<211> 41
<212> DNA
<213> Artificial Sequence
<220>
<223> Designed oligonucleotide primer to amplify DNA encoding rGRP40
<400> 15
gtcgaccacc atggacctgc ccccacagct ctccttcgct c 41

<210> 16
<211> 38
<212> DNA
<213> Artificial Sequence
<220>
<223> Designed oligonucleotide primer to amplify DNA encoding rGRP40
<400> 16
actagtctac ttctgaattg tccctcttgg agtcctgg 38

<210> 17
<211> 24

<212> DNA
<213> Artificial Sequence
<220>
<223> Designed oligonucleotide primer to amplify DNA encoding monkeyGRP40
<400> 17
tttctctgtg ggcctcgttt cctc 24
<210> 18
<211> 23
<212> DNA
<213> Artificial Sequence
<220>
<223> Designed oligonucleotide primer to amplify DNA encoding monkeyGRP40
<400> 18
cgtgctctgg ctcggtgctc ctc 23
<210> 19
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Designed oligonucleotide primer to amplify DNA encoding monkeyGRP40
<400> 19
ggcctcgttt cctccctgat 20
<210> 20
<211> 24
<212> DNA
<213> Artificial Sequence
<220>
<223> Designed oligonucleotide primer to amplify DNA encoding monkeyGRP40
<400> 20
gccctcctgc cccatgctcc ttcc 24
<210> 21
<211> 33
<212> DNA
<213> Artificial Sequence
<220>
<400> 21
gtcgacgacg agaggcaccc actcggcccc atg 33
<210> 22
<211> 33
<212> DNA
<213> Artificial Sequence
<220>
<400> 22
gctagcctac ttctgaattg ttcctccttg agt 33
<210> 23
<211> 21
<212> RNA
<213> Artificial Sequence
<220>
<223> n stands for deoxy ribothymidine
<400> 23
cgccaguugu gacauucuun n 21
<210> 24
<211> 21
<212> RNA
<213> Artificial Sequence
<220>
<223> n stands for deoxy ribothymidine
<400> 24
nngcggucaa cacuguaaga a 21
<210> 25
<211> 21
<212> RNA
<213> Artificial Sequence
<220>
<223> n stands for deoxy ribothymidine
<400> 25
cuuguuagcc auccgaggcn n 21
<210> 26
<211> 21
<212> RNA
<213> Artificial Sequence
<220>
<223> n stands for deoxy ribothymidine
<400> 26

nngaacaatc ggtaggctcc g 21